# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date: 09.06.2021

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| AGENCY | : | **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore. |
| NAME OF THE WORK | : | Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore. |
| SAMPLE ID | : | Cement (Birla OPC 53 Grade) |
| DATE OF MANUFACTURE | | May - 2021 |
| DATE OF TESTING | | 07.06.2021 to 09.06.2021 |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269-2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 130 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 340 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 29.00 % | - |

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ರನ್ನ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

Authorised Signatory


No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/SPE/W.No.13/2021-22

Date : 09.06.2021

## TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of Work : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 09.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 84 | 8.40 | 8.40 | 91.6 | 90-100 |
| 2.36 | 132 | 13.20 | 21.60 | 78.4 | 75-100 |
| 1.18 | 189 | 18.90 | 40.50 | 59.5 | 55-90 |
| 600 Micron | 156 | 15.60 | 56.10 | 43.9 | 35-59 |
| 300 Micron | 210 | 21.00 | 77.10 | 22.9 | 8-30 |
| 150 Micron | 165 | 16.50 | 93.60 | 6.4 | 0-10 |

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22

Date : 09.06.2021

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

**Name of Work** : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 09.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 189 | 3.8 | 3.8 | 96.2 | 95-100 |
| 10 | 2463 | 49.3 | 53.0 | 47.0 | 25-55 |
| 4.75 | 1958 | 39.2 | 92.2 | 7.8 | 0-10 |

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Date : 09.06.2021

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore

**Name of Work** : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 09.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 184 | 1.23 | 1.23 | 98.77 | 95-100 |
| 20 | 8236 | 54.91 | 56.13 | 43.87 | 30-70 |
| 10 | 3265 | 21.77 | 77.90 | 22.10 | 10-35 |
| 4.75 | 2861 | 19.07 | 96.97 | 3.03 | 0-5 |

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22

Date : 08.06.2021

## GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.
Name of Work : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
**IS Code:** : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 08.06.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

| Is Sieve Size in mm | Weight Retained (gm) | Cumulative Weight Retained (gm) | Cumulative % of Retained | Cumulative % of Passing | Requirement as per MORTH 5th edition table no 400.13 |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0 | 100 | 100 |
| 45 | 184 | 184 | 1.8 | 98.2 | 95-100 |
| 22.4 | 2536 | 2720 | 27.2 | 72.8 | 60-80 |
| 11.2 | 2155 | 4875 | 48.8 | 51.3 | 40-60 |
| 4.75 | 1896 | 6771 | 67.7 | 32.3 | 25-40 |
| 2.36 | 1165 | 7936 | 79.4 | 20.6 | 15-30 |
| 0.600 | 589 | 8525 | 85.3 | 14.8 | 8-22 |
| 0.075 | 1210 | 9735 | 97.4 | 2.6 | 0-5 |

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date: 08.06.2021

## Aggregate Impact Value

| | |
|---|---|
| Client | **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| Agency | **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S)** Contractor, Bangalore. |
| Name of the Work | Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore. |
| IS Code | IS 2386 (Part 4):1963(RA 2011) |
| Type of Mix | Wet Mix macadam |
| Date of Testing | 08.06.2021 |

| Sl No. | Details | Test No. 1 | Test No. 2 | Average |
|---|---|---|---|---|
| 1 | Total weight of aggregate sample filling the cylindrical measure = $W_1$ g | 379 | 381 | |
| 2 | Weight of agregate passing 2.36 mm sieve after the test = $W_2$ g | 84 | 86 | |
| 3 | Weight of aggregate retained 2.36 mm sieve after the test = $W_3$ g | 295 | 295 | |
| 4 | Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$ | 22.16 | 22.57 | 22.37 |

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date : 10.06.2021

## ATTERBERG LIMITS TEST FOR WMM

**Client** : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S)** Contractor, Bangalore.

**Name of Work** : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

**IS Code:** : IS 2720(Part 5):1985

**Date of Testing** : 08.06.2021 to 10.06.2021

**Material Type** : Wet Mix Macadam

| Sl. No. | Particulars | Test Results | Requirement as per MORTH 5th edition Cl.406.2.1.2 |
|---|---|---|---|
| 1 | Liquid Limit | 21.00 | - |
| 2 | Plasticity Index, % | Non Plastic | 6.0% Maximum. |

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date: 29.06.2021

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| **Agency** | : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore. |
| **Name of the work** | : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore. |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{30}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.06.2021 | 29.06.2021 | 8.156 | 501.2 | 22.28 |
| 2 | 22.06.2021 | 29.06.2021 | 8.138 | 486.6 | 21.63 |
| 3 | 22.06.2021 | 29.06.2021 | 8.124 | 516.3 | 22.95 |

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Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date: 20.07.2021

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

**Name of the work** : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{30}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.06.2021 | 20.07.2021 | 8.166 | 708.2 | 31.48 |
| 2 | 22.06.2021 | 20.07.2021 | 8.154 | 725.3 | 32.24 |
| 3 | 22.06.2021 | 20.07.2021 | 8.138 | 699.3 | 31.08 |

Note:

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2. The results indicated above are based on the tests carried out on the samples Collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಇಂಜಿನಿಯರ್
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.


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# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory


Job No.: CACE/BBMP/SPE/W.No.13/2021-22 Date: 20.07.2021

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore. |
| **Agency** | : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore. |
| **Name of the work** | : Drilling of borewell and Providing water facilities in Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore. |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{30}$ |
| **Compressive Strength as on** | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.06.2021 | 20.07.2021 | 8.184 | 708.2 | 31.48 |
| 2 | 22.06.2021 | 20.07.2021 | 8.169 | 716.3 | 31.84 |
| 3 | 22.06.2021 | 20.07.2021 | 8.155 | 724.8 | 32.21 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorised Signatory


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